

REMARKS

Claims 31, 42, 43, and 44 have been amended. Support for these amendments may be found in paragraphs [0080] to [0088] of the specification. Claims 31-55 remain pending.

Claim Objections

In the Office Action mailed April 8, 2009, claim 1 was objected to as the phrase “processing an active transaction list” appears to be incorrect. Applicant notes that claim 1 has been cancelled in Applicant’s response dated February 24, 2009. Applicant believes the Examiner intended to object to claim 31 instead of claim 1. Solely based upon this assumption, claim 31 has been amended to include “...collecting an active transaction list of all active transactions...” and “processing the active transaction list...”

In the Office Action mailed April 8, 2009, claim 1 was objected to as the phrase “the another log sequence number” appears to be incorrect. Applicant notes that claim 1 has been cancelled in Applicant’s response dated February 24, 2009. Applicant believes the Examiner intended to object to claim 31 instead of claim 1. Regardless of whether the Examiner intended claim 31 or claim 1, Applicant respectfully disagrees with the objection. Prior to the amendments made to claim 31 in this response, antecedent basis for the limitation “the another log sequence number” in claim 31 may be found in the phrase below:

determining a first log sequence number and a second log sequence number the first log sequence number and the second log sequence number being used to compare another log sequence number of another modified block being loaded into the shadow cache.
(emphasis added)

As such, Applicant respectfully submits that the phrase “the another log sequence number” should not be “the other log sequence number” as suggested by the Examiner.

In the Office Action mailed April 8, 2009, claim 44 was objected to as the phrase “having begun but have yet to commit” should be “having begun but having yet to commit.” Applicant has amended claim 44 to include the limitation “having begun but having yet to commit” as suggested by the Examiner.

Applicant respectfully submits that these claim objections are overcome.

35 U.S.C. §112

In the Office Action mailed April 8, 2009, claim 1 was rejected under 35 U.S.C. 112, second paragraph. The Examiner asserts that the limitations “the second log sequence number being used to compare,” “another modified block being loaded,” and “determining one or more other modified blocks that were created” are indefinite. Applicant notes that claim 1 has been cancelled in Applicant’s response dated February 24, 2009. Applicant believes the Examiner intended to reject claim 31 instead of claim 1. Applicant has amended claim 31 to include the limitations “loading a modified block ...,” “comparing the log sequence number...,” and “creating one or more other modified blocks.” Applicant respectfully submits that the 35 U.S.C. §112 rejections are overcome.

35 U.S.C. §101

In the Office Action mailed April 8, 2009, claims 42-43 were rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter. Applicant has amended claim 42 to recite a “computer readable storage medium” and claim 43 to recite “storing the set of processor-executable instructions on a computer-readable storage medium configured to be accessed by at least one computer.” Applicant respectfully submits that the 35 U.S.C. §101 rejections are overcome.

35 U.S.C. §103

In the Office Action mailed April 8, 2009, claims 31-33 and 36-43 were rejected under 35 U.S.C. §103(a) as being unpatentable over Klein et al. (U.S. 6,631,374; hereinafter “Klein”), in view of Ganesh et al. (U.S. 6,192,377; hereinafter “Ganesh”), in view of Weems (“Shadow Cache,” University of Massachusetts, May 2004; hereinafter “Weems”), in further view of Natarajan et al. (“Log Sequence Numbers,” University of Wisconsin, May 2003; hereinafter “Natarajan”). In the Office Action mailed April 8, 2009, claims 44-51 and 53-54 were rejected under 35 U.S.C. 103(a) as being unpatentable over Klein, in view of Hayashi et al. (U.S. 5,715,447; hereinafter “Hayashi”), in further view of DeWitt, Jr. et al. (U.S. 7,093,081; hereinafter “DeWitt”). Applicant submits the rejections are traversed.

Independent claims 31 and 44

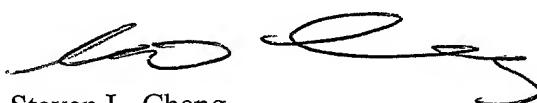
As amended, claim 31 includes the limitations “...wherein the physical redo operations or physical undo operations are not performed on the modified block when the log sequence number is less than the fist log sequence number, and wherein the physical redo operations are performed on the modified block when the log sequence number is greater than the first log sequence number and less than the second log sequence number, and wherein the physical undo operations are performed on the modified block when the log sequence number is greater than the second log sequence number....” Applicant submits that none of the cited references describe, disclose, teach or suggest the limitation recited above. Claim 44 has been amended to also included this limitation and thus is allowable for at least the same reasons. As such, Applicant respectfully submits that amended claims 31 and 44 are allowable over the cited references.

Dependent claims 32-55

Dependent claims 32-35, 37-43, 45-49, 51-55 depend directly or indirectly from independent claims 31 and 44, respectively. Dependent claims include additional limitations that further distinguish them over the independent claims. As such, it is respectfully submitted that these dependent claims are believed to be allowable for the same reasons set forth above.

Reconsideration of the application and allowance of all claims are respectfully requested based on the preceding remarks. If at any time the Examiner believes that an interview would be helpful, please contact the undersigned.

Respectfully submitted,



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